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05357324 \*\*Image available\*\*  
 CONTROL VALVE

PUB. NO.: 08-312824 [JP 8312824 A]  
 PUBLISHED: November 26, 1996 (19961126)  
 INVENTOR(s): SUZUKI ISAO  
 APPLICANT(s): NIPPON M K S KK [000000] (A Japanese Company or Corporation),  
 JP (Japan)  
 APPL. NO.: 07-122292 [JP 95122292]  
 FILED: May 22, 1995 (19950522)  
 INTL CLASS: [6] F16K-031/06; F16K-031/06; F16K-031/06  
 JAPIO CLASS: 24.1 (CHEMICAL ENGINEERING -- Fluid Transportation)

#### ABSTRACT

PURPOSE: To provide a control valve of simple constitution, prevented from vibration and extremely excellent in control property.

CONSTITUTION: A permanent magnet 22 provided on the outer peripheral side of a yoke 12 and a means for positioning the permanent magnet 22 on the outer peripheral prescribed position of the yoke 12 are arranged on a control valve which is formed in such a constitution that a plunger 8 in the yoke 12 is driven by a coil 20 so as to open/close a valve part by movement of the plunger 8, the plunger 8 is damped by a magnetic field out from the permanent magnet 22. It is thus possible to prevent hunting and obtain excellent control property.

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03259366 \*\*Image available\*\*  
 VEHICLE WINDOW GLASS WASHING DEVICE

PUB. NO.: 02-234866 [JP 2234866 A]  
 PUBLISHED: September 18, 1990 (19900918)  
 INVENTOR(s): ABE TADASHI  
 APPLICANT(s): ABE TADASHI [000000] (An Individual), JP (Japan)  
 APPL. NO.: 01-053429 [JP 8953429]  
 FILED: March 06, 1989 (19890306)  
 INTL CLASS: [5] B60S-001/46  
 JAPIO CLASS: 26.2 (TRANSPORTATION -- Motor Vehicles); 28.1 (SANITATION -- Sanitary Equipment)  
 JOURNAL: Section: M, Section No. 1056, Vol. 14, No. 552, Pg. 59,  
 December 07, 1990 (19901207)

#### ABSTRACT

PURPOSE: To enable the certain removal of ice, snow, frost and oil film

stuck to a window glass by providing a heating part in a tank, thereby heating a washing solution followed by injection in a device of injecting the washing solution in the tank to the wiper part of a window glass from an injection port.

CONSTITUTION: A washing solution stored in a washing solution tank 3 is injected into the wiping range of a wiper in a window glass from an injection port through 1 pipe by means of a pump, in which the wiper, window glass, injection port, pipe, and pump are not shown. In this case, the tank 3 is formed of three spaces consisting of a liquid storing part 7, a heating part 8, and an injection trap 9. The heating part 6 is disposed on the bottom of the tank 3, with such a constitution that a heat insulating bulkhead 10 is interposed between it and the upper liquid storage part 7, a vertical communicating hole 11 is bored in the bulkhead 10, and an electric heater 16 is received in the inner space. Hence, the washing solution heated by the heating part 8 is fed to a feed pipe 6 to certainly remove the ice, snow, frost and oil film stuck to the window glass.

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